

## Claims

1. Method for path searching in a packet-switching communication network comprising a number of network nodes, in which at least one network node is a destination network node and a path search method to a destination network node is operated in at least one subset of the network nodes of the communication network, the results of which are stored in a routing table,
- 10 characterized in that at least two different path search methods to a destination network node are used in at least one network node and the result of at least one of the path search methods is stored in the routing table.
- 15 2. Method according to claim 1, characterized in that the connection paths established by means of the path search method in a network node and leading to a destination network node are stored respectively, fed to a discriminator, which
- 20 selects one connection path from the set of connection paths established by means of the path search methods and leading to a destination network node and inputs this connection path in a routing table/control table of the network node.
- 25 3. Method according to claim 1 or 2, characterized in that a shortest path search method is used as the path search method.
- 30 4. Method according to claim 1, 2 or 3, characterized in that

a multipath search method is used as the path search method.

5. Network node of a packet-switching communication network comprising a number of network nodes, in which at least one network node is a destination network node or a destination system is linked to at least one network node and an algorithm for path searching to a destination network node or destination system is stored in at least one subset of the network nodes of the communication network, the path search results of which are stored in a routing table, characterized in that at least two different path search algorithms are stored in at least one network node and at least one result of the path search algorithms is stored in the routing table.

6. Network node according to claim 5, characterized in that a discriminator is provided to select the results of the different path search algorithms.

7. Network node according to claim 5, characterized in that one of the available path search algorithms can be selected by a discriminator and its results can be input in the routing table.

8. Network node according to claim 5, 6 or 7, characterized in that one of the available path search algorithms can be selected for each destination network node or destination system and its results can be input in the routing table.